



## H-9383 Solvent-based Silicone Water Repellent

H-9383 is a high-quality general-purpose water repellent that can be used for impregnating and priming mineral and highly alkaline substrates. It is an advanced model based on our concentrated general-purpose silicone water repellent, offering greater dilution capabilities and improved performance. It can be diluted with organic solvents such as alcohols, esters, and hydrocarbons. It is widely used for waterproofing surfaces of cement concrete, stone, wood, and other mineral materials.

### Product Features:

1. Excellent penetration depth due to its small molecular weight and positive charge.
2. Suitable for waterproofing various substrates, whether alkaline or neutral, and can cure into a hydrophobic film at room temperature.
3. Non-tacky after curing.
4. Resistant to strong alkalis (unlike sodium or potassium methylsiliconate water repellents, which are not alkali-resistant).

### Physical Parameters:

Physical Parameters	Values
Color	Colorless, transparent liquid
Content	≥98%
Density	0.90±0.05 (20~30°C)
Viscosity	<10mPa.s (20~30°C)
Dilution ratio	10~20

### Application Areas:

The H-9383 diluted solution is suitable for the following:

1. Waterproofing various types of concrete, including aerated concrete, reinforced concrete, highways, airport runways, bridge concrete, and tunnel concrete.
2. Waterproofing cement mortar, cement fiberboards, natural stone and artificial stone, wood, and fiberboards, as well as gypsum boards, mineral, and clay surfaces. (For waterproofing wood and clay surfaces, a catalyst additive is required).
3. Anti-graffiti coating applications.
4. Other uses, such as in combination with phenolic resin for special paper (automotive filters).



**Waterproofing Process:**

1. **Cleaning:** Clean the surface of the building materials (cement, bricks, tiles, stone, etc.) by removing dust, oil stains, and debris, and let it dry. Fill any visible cracks with waterproof paste and allow it to dry.
2. **Diluting the concentrated water repellent:** Use alcohol or hydrocarbon solvents like ethanol, isopropanol, or petroleum solvents to dilute the concentrate into a working solution. To reduce harm to operators and the environment, avoid using methanol, benzene, or chlorinated solvents. The ideal solvent boiling range is 140-190°C, with a flash point above 40°C, to prevent drying too quickly or too slowly and to reduce fire hazards. The dilution ratio of solvent to concentrate ranges from 1:9 to 1:20. For slightly damp substrates, hydrocarbon solvents are preferable to alcohols.
3. **Application:** For spray application, cover surrounding areas that do not require waterproofing with plastic sheeting to prevent contamination. For brush application, clean and dry the brush before use, and clean it with solvent after use for future applications. Both spray and brush applications may require two or more coats, with the second coat applied after the first is surface-dry.
4. **Coverage:** The estimated coverage per liter of working solution for different materials is as follows:
  - Cement concrete: 5-10 m<sup>2</sup>
  - Cement mortar: 5-10 m<sup>2</sup>
  - Lime mortar: 5-10 m<sup>2</sup>
  - Natural stone (marble, granite): 10-20 m<sup>2</sup>
  - Cement fiberboard: 5-10 m<sup>2</sup>

**Storage:**

Store in a cool, dry place, away from high temperatures and moisture. Keep the inner and outer lids tightly sealed, especially for unused working solution.

**Safety Precautions:**

Keep away from open flames and hidden flames (e.g., cigarette butts). If the solution contacts the skin, wash with soap and water. Wear a mask during application to prevent inhalation, and seek medical attention if inhaled.